

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: COLCORD POND	Lake Area (ha): 4.86
Town: EXETER	Maximum depth (m): 2.1
County: Rockingham	Mean depth (m): 0.7
River Basin: Coastal	Volume (m <sup>3</sup> ): 35000
Latitude: 42°59'02" N	Relative depth: 0.9
Longitude: 70°58'21" W	Shore configuration: 2.21
Elevation (ft): 45	Areal water load (m/yr): 297.2
Shore length (m): 1725	Flushing rate (yr <sup>-1</sup> ): 410.9
Watershed area (ha): 3160.0	P retention coeff.: 0.03
% watershed ponded: 0.2	Lake type: natural w/dam

BIOLOGICAL:

28 January 1998

3 September 1997

DOM. PHYTOPLANKTON (% TOTAL)	#1	SPARSE - NO DOMINANT	MELOSIRA 35%
	#2		FILAM. GR. SPP 15%
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			15.24
DOM. ZOOPLANKTON (% TOTAL)	#1	NONE OBSERVED	SPARSE - NO DOMINANT
	#2		
	#3		
ROTIFERS/LITER			
MICROCRUSTACEA/LITER			14
ZOOPLANKTON ABUNDANCE (#/L)			25
VASCULAR PLANT ABUNDANCE			Abundant
SECCHI DISK TRANSPARENCY (m)			1.7
BOTTOM DISSOLVED OXYGEN (mg/L)		11.5	4.2
BACTERIA (E. coli, #/100 ml)	#1		14
	#2		76
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>) : None  
Anoxic volume (m<sup>3</sup>) : None

**CHEMICAL:**

Lake: COLCORD POND

Town: EXETER

	28 January 1998		3 September 1997		
DEPTH (m)	1.5		1.0		
pH (units)	6.3		7.2		
A.N.C. (Alkalinity)	9.1		52.6		
NITRATE NITROGEN	< 0.05		< 0.05		
TOTAL KJELDAHL NITROGEN	0.40		0.90		
TOTAL PHOSPHORUS	0.017		0.078		
CONDUCTIVITY ( $\mu$ mhos/cm)	126.0		156.2		
APPARENT COLOR (cpu)	50		100		
MAGNESIUM			2.96		
CALCIUM			11.5		
SODIUM			13.6		
POTASSIUM			2.71		
CHLORIDE	25		23		
SULFATE	9		5		
TN : TP	24		12		
CALCITE SATURATION INDEX			1.3		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1997**

D.O. S.D. PLANT CHL TOTAL CLASS

**	4	5	3	12	Eutro.
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**COMMENTS:**

1. This is a shallow impoundment on the Little River, with a relatively large watershed and rapid flushing rate.
2. Colcord Pond is a dark tea-colored eutrophic pond with elevated conductivity, ANC, and cation values. Phosphorus and chlorophyll values were high and water clarity poor.
3. No boat launch. Boat was put in over the bank near the dam, off Rt. 111A.

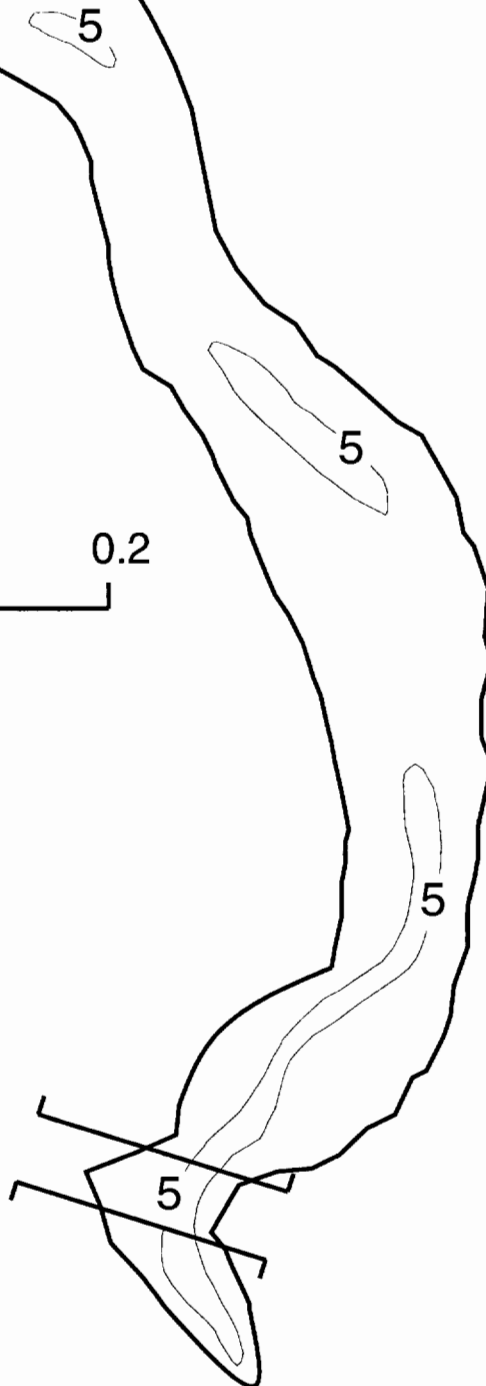
# Colcord Pond

## Exeter

5 foot depth contours

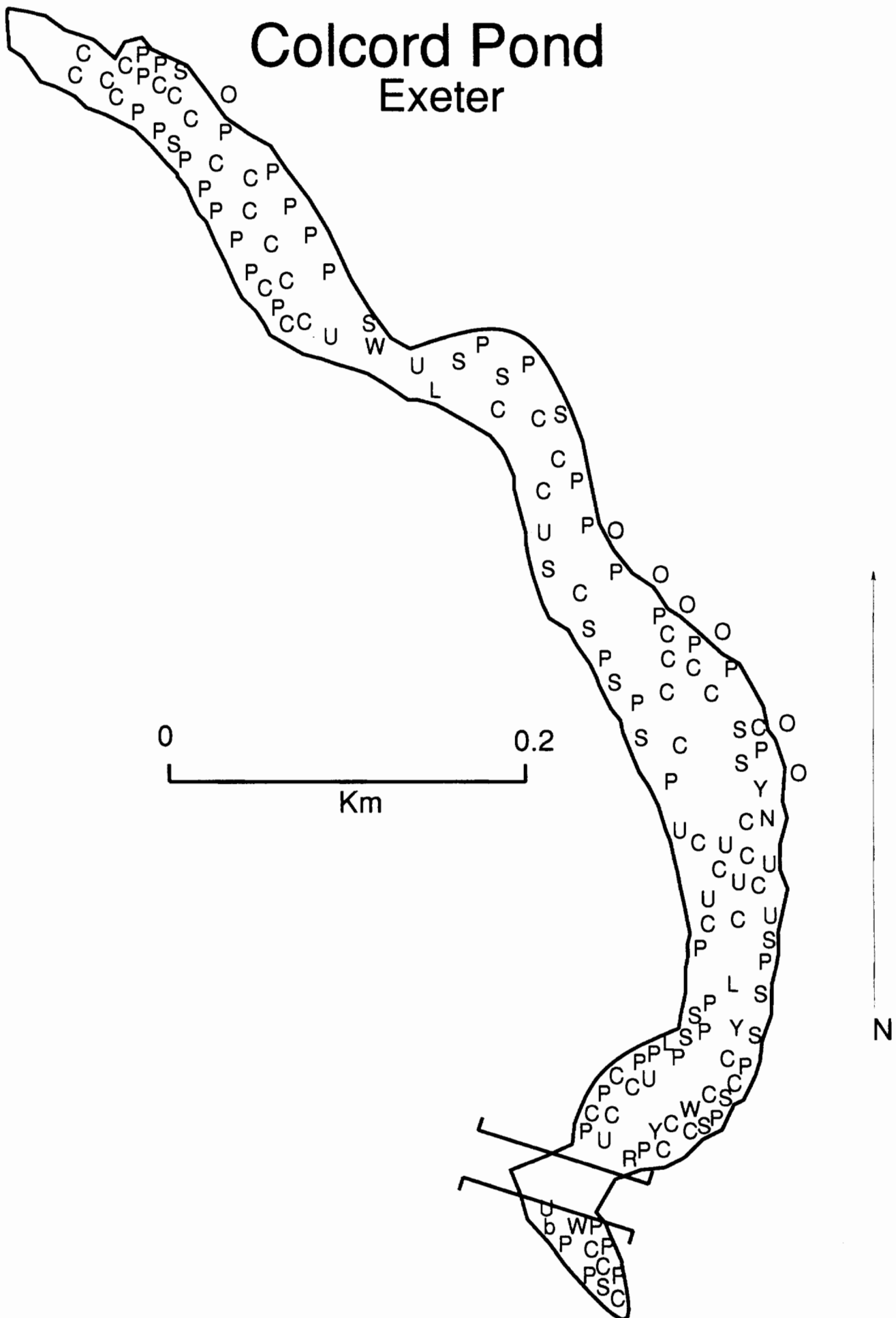
0 0.2  
Km

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# Colcord Pond Exeter



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